

UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)*(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.
90065.000701/17732.6357.003

Total Pages in this Submission

TO THE COMMISSIONER FOR PATENTS

Mail Stop Patent Application

P.O. Box 1450

Alexandria, VA 22313-1450

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

DENSE TRENCH MOSFET WITH DECREASED ETCH SENSITIVITY TO DEPOSITION AND ETCH PROCESSING

and invented by:

Jifa Hao, Rodney S. Ridley and Gary M. Dolny

21910 U.S. PTO
10/618067

07/11/03

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 10/044,220

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 10 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☒ Cross References to Related Applications *(if applicable)*
 - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
 - d. ☐ Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings *(if filed)*
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

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Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☒ Formal Number of Sheets 4
- b. ☐ Informal Number of Sheets _____
4. ☒ Oath or Declaration
- a. ☐ Newly executed *(original or copy)* ☐ Unexecuted
- b. ☒ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)
7. ☐ Application Data Sheet (See 37 CFR 1.76)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Computer Readable Form (CRF)
- b. ☐ Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ Paper
- c. ☐ Statement(s) Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

9. ☒ Assignment Papers *(cover sheet & document(s))*
10. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
11. ☐ English Translation Document *(if applicable)*
12. ☒ Information Disclosure Statement/PTO-1449 ☒ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) *(Should be specifically itemized)*
15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail *(Specify Label No.):* EU 938685738 US

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(Large Entity)

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Accompanying Application Parts (Continued)

17. ☒ Additional Enclosures *(please identify below):*

Please cancel claims 1-4 in the prior application prior to calculating the fees below.

Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

18. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

07/11/03
17831 U.S. PTO

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Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	5	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	1	- 3 =	0	x \$84.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$750.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$750.00

☐ A check in the amount of _____ to cover the filing fee is enclosed.

☐ The Director is hereby authorized to charge and credit Deposit Account No. _____ as described below.

☐ Charge the amount of _____ as filing fee.

☐ Credit any overpayment.

☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated:

7/11/03




34799

PATENT TRADEMARK OFFICE

Signature

Thomas R. FitzGerald, Esq.
Reg. No. 26,730
16 E. Main Street, Suite 210
Rochester, New York 14614-1803
Telephone: (585) 454-2250
Fax: (585) 454-6364

CC:

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)			Docket No. 90065.000701/17732.6357.003	
Applicant(s): Jifa Hao, et al.				
Serial No. TBA	Filing Date Filed Herewith	Examiner Unknown	Group Art Unit TBA	
Invention: DENSE TRENCH MOSFET WITH DECREASED ETCH SENSITIVITY TO DEPOSITION AND ETCH PROCESSING				
<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;">Utility Patent Application Transmittal Letter with Form PTO-2038/Authorization to Charge Filing Fee of \$750.00 to Credit Card (total 5 pages)</div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="text-align: center;"><u>July 11, 2003</u> <small>(Date)</small></p> <div style="text-align: center; margin-top: 20px;"><p>Penny P. Clements <small>(Typed or Printed Name of Person Mailing Correspondence)</small></p><div style="margin: 5px 0;"></div><p><small>(Signature of Person Mailing Correspondence)</small></p><p>EU 938685738 US <small>("Express Mail" Mailing Label Number)</small></p></div>				
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Serial No.

TBA

Filing Date

Filed Herewith

Examiner

Unknown

Group Art Unit

TBA

Invention: **DENSE TRENCH MOSFET WITH DECREASED ETCH SENSITIVITY TO DEPOSITION AND ETCH PROCESSING**

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Preliminary Amendment (total 6 pages)

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July 11, 2003
(Date)

Penny P. Clements

(Typed or Printed Name of Person Mailing Correspondence)*(Signature of Person Mailing Correspondence)*

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Serial No.
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Filed HerewithExaminer
UnknownGroup Art Unit
TBAInvention: **DENSE TRENCH MOSFET WITH DECREASED ETCH SENSITIVITY TO DEPOSITION AND ETCH PROCESSING**

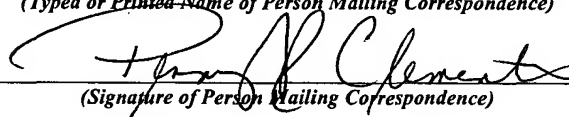
I hereby certify that the following correspondence:


Specification, Claims and Abstract (total 10 pages)

(Identify type of correspondence)

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(Date)

Penny P. Clements*(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)*EU 938685738 US*("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

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<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 5px; min-height: 40px;"><p>Four (4) Sheets Formal Drawings (identified)</p></div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="text-align: center;"><u>July 11, 2003</u> <i>(Date)</i></p> <div style="text-align: center;"><p>Penny P. Clements <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><div style="border-top: 1px solid black; width: 100%;"> <i>(Signature of Person Mailing Correspondence)</i></div><p>EU 938685738 US <i>("Express Mail" Mailing Label Number)</i></p></div>			
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Filing Date

Filed Herewith

Examiner

Unknown

Group Art Unit

TBA

Invention: **DENSE TRENCH MOSFET WITH DECREASED ETCH SENSITIVITY TO DEPOSITION AND ETCH PROCESSING**

I hereby certify that the following correspondence:

Copy of Notice of Recordation of Assignment Document from Previous Application (9 pages)

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July 11, 2003
(Date)

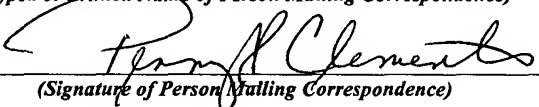
Penny P. Clements

(Typed or Printed Name of Person Mailing Correspondence)
(Signature of Person Mailing Correspondence)

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<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"><p>Information Disclosure Statement with Form PTO-1449 & <u>6</u> cited references attached</p></div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="margin-left: 150px;"><u>July 11, 2003</u> <i>(Date)</i></p> <div style="text-align: right; margin-top: 20px;"><p><u>Penny P. Clements</u> <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p><p><u></u> <i>(Signature of Person Mailing Correspondence)</i></p><p><u>EU 938685738 US</u> <i>("Express Mail" Mailing Label Number)</i></p></div>			
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